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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/726,884	11/30/2000	Hikmet Senay	36287-00101	1467
21967	7590	04/19/2006	EXAMINER	
HUNTON & WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. SUITE 1200 WASHINGTON, DC 20006-1109			ROBINSON BOYCE, AKIBA K	
			ART UNIT	PAPER NUMBER
			3639	

DATE MAILED: 04/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/726,884	<b>Applicant(s)</b> SENAY ET AL.	
	<b>Examiner</b> Akiba K. Robinson-Boyce	<b>Art Unit</b> 3639	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 09 February 2006.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-18 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Status of Claims***

1. Due to communications filed 2/9/06, the following is a final office action. Claims 1 and 17 have been amended. Claim 18 has been added. Claims 1-18 are pending in this application and have been examined on the merits. The previous rejection has been withdrawn, and the following reflects the claims as amended.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 2-5, 10-13, 15, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson et al (US Patent 5,964,839), and in further view of Herz (6,029,195).

As per claim 1, Johnson et al discloses:

Collecting interaction data, (Col. 2, line 66-Col. 3, line 7, real-time interaction data monitored and specific data collected from the interaction between a user and an external information service);

Computer processing said collected interaction data with connectivity and diversity measures, (Col. 3, lines 8-11, connectivity data collected)

wherein connectivity is a measure for assessing how well entities are connected

to their environments and diversity is a measure for assessing how diverse entities are in their interactions with or connections to their environment, and wherein an environment of each entity comprises at least one entity, (Abstract, lines 12-16, shows a connectivity monitor that monitors the connectivity data or the bi-directional data stream between software modules and the operating system, w/ abstract, lines 30-34, shows that connectivity data monitoring includes data packets sent, bytes sent, data packets received, and bytes received, where the one entity is represented by the user).

In the past two limitations, these measurements represent both connectivity and diversity according to the applicant's definition since data packets/bytes sent versus data packets/bytes received during a data stream connection has the ability to tell a user how well connected, or how diverse the connection is, and therefore the diversity measurement is inherent with Johnson.

Displaying said processed interaction data and appropriate raw interaction data for interaction analyses, (col. 3, lines 43-45 and lines 60-63, shows a connectivity infiltration module for monitoring the keystroke information and movement of pointing devices [raw interaction data], and a desktop infiltration module respectively, which monitors the user and application activity on the computer [processed interaction data], in this case, col. 15, lines 38-41, shows display of connectivity data monitored by the infiltration device, and col. 16, lines 12-15, shows the display of the desktop data).

Johnson et al does not disclose among three or more entities, wherein each

Art Unit: 3639

entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities, but does disclose the collection of data among more than one entity as shown in col. 2, line 66-Col. 3, line 7.

However, Herz discloses:

among three or more entities, wherein each entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities, (See fig 1, and col. 33, lines 6-21, shows an electronic media system known in the art that may be applied to Herz's invention, where users on terminals T1-Tn access information via communication with one of the network vendors V1-vk, w/ col. 30, lines 37-41 shows that a 3<sup>rd</sup> party can interact (neutral third party) and provide a credential that a user is in good standing when rating a product via the communication network, in this case, the user, vendor and neutral third party serve as the three or more entities and in this case the vendor and the neutral third party interact with users on T1-Tn terminals, or multiple users). Herz discloses this limitation in an analogous art for the purpose of showing that a third party is involved in the collection of data related to a product when a user interacts on a communication network.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to collect interaction data among three or more entities, wherein each entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities, with the motivation of showing that a third party can be involved in the collection of interaction data.

As per claim 2, Johnson et al discloses:

Wherein said collecting interaction data comprises use of network surveys, (Col. 1, line 55-Col. 2, line 7).

As per claim 3, Johnson et al discloses:

Monitoring e-mail traffic, (Col.2, lines 53-65).

As per claim 4, Johnson et al discloses:

Monitoring of telephone traffic, (Col. 1, lines 24-29).

As per claim 5, Johnson et al discloses:

Monitoring of access to shared resources, (Col. 6, lines 23-34).

As per claims 6, 8, Johnson et al fails to disclose wherein said connectivity/diversity measure is a recursive mathematical algorithm that employs a decay factor to account for the effects of indirect interactions among entities, but does disclose collecting and analyzing user interaction data in Col. 2, line 66-Col. 3, line 7, and monitoring user interaction with a personal computer in and Col. 2, lines 53-55.

However Herz discloses:

Wherein said connectivity/diversity measure is a recursive mathematical algorithm that employs a decay factor to account for the effects of indirect interactions among entities, (Col. 60, lines 49-52). Herz disclose this limitation in an analogous art for the purpose of calculating how much files are accessed by multiplying by a decay factor.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to incorporate the decay factor of Herz into Johnson et al's system with the motivation of determining the rate that interactions are decreasing

with respect to customer interactions.

As per claim 10, Johnson et al discloses:

Wherein said displaying said processed interaction data comprises generating an organization view, (Col.12, lines 32-41).

As per claim 11, Johnson et al discloses:

Wherein said displaying said processed interaction data comprises generating a group view, (Col.12, lines 32-41 and Col. 13, lines 46-53).

As per claim 12, Johnson et al discloses:

Wherein said displaying said processed interaction data comprises generating an individual view, (Col. 13, lines 46-53).

As per claim 13, Johnson et al discloses:

Wherein said displaying said processed interaction data comprises generating a cluster view, (Col.12, lines 32-41 and Col. 13, lines 46-53).

As per claim 14, Johnson et al fails to disclose:

wherein displaying said processed interaction data comprises generating a people map where said connectivity and diversity measures for predefined units are represented graphically, but does disclose collecting and analyzing user interaction data in Col. 2, line 66-Col. 3, line 7, and monitoring user interaction with a personal computer in and Col. 2, lines 53-55.

However Herz discloses Wherein displaying said processed interaction data comprises generating a people map where said connectivity and diversity measures for predefined units are represented graphically in col. 8, lines 39-47 in an analogous

art for the purpose of predicting the information consumption patterns of a user.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to incorporate the people map of Herz into Johnson et al with the motivation of using the people map to visually represent customer interaction data.

As per claim 15, Johnson et al discloses:

Wherein said displaying said processed interaction data comprises generating a topical view, (Col. 13, lines 46-53).

As per claim 16, Johnson et al fails to disclose generating a report based on results of the interaction analysis, but Johnson et al does disclose collecting and analyzing user interaction data in Col. 2, line 66-Col. 3, line 7.

However, Herz discloses:

Generating a report based on results of the interaction analysis, (Col. 94, lines 20-28 shows that upon monitoring an employee's work profile dealing with the worker's dialogue interaction, a summary report may be e-mailed upon the supervisor designating particular clusters to a user's employment duties, in this case, the report is generated in response to the supervisor designations in the system). Herz disclose this limitation in an analogous art for the purpose of showing that a report based on user interactions can be generated.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to generate a report based on results of the interaction analysis with the motivation of having means to physically view interaction results.

As per claim 17, Johnson et al discloses:



A computer having a...storage unit, (Col. 2, lines 53-55, monitoring user interaction with a personal computer, w/ col. 8, lines 26-27, storage device);

A database electronically coupled to said computer for storing interaction data, auxiliary information and any additional data derived from said interaction data, (Col. 7, lines 22-31, shows that upon completion of an interactive session with a user, the data structures are transferred into files and saved in memory, where in this case the memory serves as the database since the data is saved in the form of files);

Algorithms stored in said storage unit...for measuring connectivity and diversity of entities based on their interactions, wherein connectivity is a measure for assessing how well entities are connected to their environments and diversity is a measure for assessing how diverse entities are in their interactions with or connections to their environment, and wherein an environment of each entity comprises at least one entity, (col. 8, lines 24-27, the executable program that facilitates storage serves as the algorithm, w/Abstract, lines 12-16, shows a connectivity monitor that monitors the connectivity data or the bi-directional data stream between software modules and the operating system, w/ abstract, lines 30-34, shows that connectivity data monitoring includes data packets sent, bytes sent, data packets received, and bytes received. In this case, these measurements represent both connectivity and diversity according to the applicant's definition since data packets/bytes sent versus data packets/bytes received during a data stream connection has the ability to tell a user how well connected, or how diverse the connection is, where the one entity is represented by the user).

A set of programs for accessing interaction data and generating views dynamically, (Col. 3, lines 38-51, shows that connectivity and desktop activity monitor comprises a set of client software modules capture and log connectivity and desktop activity data and interacts with the connectivity infiltration module to provide for the display of data provided b the infiltration module).

A display screen electronically coupled to said computer for providing a user interface, said user interface providing appropriate controls for displaying and interactively manipulating each generated view, (Col. 13, lines 46-51, shows screen coordinates are monitored by the desktop monitor interface, it is therefore inherent to have a display screen since in this case, the user is using the pointing device by way of monitor);

A user input device electronically coupled to said computer, (Col. 3, lines 60-63, keyboard);

The following is inherent with Johnson et al's system because Johnson et al discloses that the system is implemented on a computer, which, according to Merriam Webster's Dictionary is a programmable electronic device that can store, retrieve, and process data. In order to process the data, a microprocessor is needed and in order to store the data, a storage unit is needed:

having a microprocessor/operable by said microprocessor

Johnson et al does not disclose among three or more entities, wherein each entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities, but dies disclose the collection of data among

more than one entity as shown in col. 2, line 66-Col. 3, line 7.

However, Herz discloses:

among three or more entities, wherein each entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities, (See fig 1, and col. 33, lines 6-21, shows an electronic media system known in the art that may be applied to Herz's invention, where users on terminals T1-Tn access information via communication with one of the network vendors V1-vk, w/ col. 30, lines 37-41 shows that a 3<sup>rd</sup> party can interact (neutral third party) and provide a credential that a user is in good standing when rating a product via the communication network, in this case, the user, vendor and neutral third party serve as the three or more entities and in this case the vendor and the neutral third party interact with users on T1-Tn terminals, or multiple users). Herz discloses this limitation in an analogous art for the purpose of showing that a third party is involved in the collection of data related to a product when a user interacts on a communication network.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to collect interaction data among three or more entities, wherein each entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities, with the motivation of showing that a third party can be involved in the collection of interaction data.

Johnson et al does not specifically disclose the following, but Johnson et al does disclose collecting and analyzing user interaction data in Col. 2, line 66-Col. 3, line 7.

However, Herz disclose:

A user selectable element of said user interface being responsive to user input via said user input device to generate a report based on analysis results, (Col. 94, lines 20-28 shows that upon monitoring an employee's work profile dealing with the worker's dialogue interaction, a summary report may be e-mailed upon the supervisor designating particular clusters to a user's employment duties, in this case, the report is generated in response to the supervisor designations in the system). Herz disclose this limitation in an analogous art for the purpose of showing that a report based on user interactions can be generated.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to generate a report based on results of the interaction analysis with the motivation of having means to physically view interaction results.

4. Claims 7, 9, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson et al (US Patent 5,964,839), and further in view of Herz (US 6,029,195), and further in view of applicant's admissions.

As per claim 7, neither Johnson et al, nor Herz disclose the specific formula:

Wherein said connectivity measure employs the following mathematical formula...Where  $C(E, L)$  denotes connectivity of entity E at depth L where E has N direct interactions,  $w(k)$  is the weight of direct interactions from k, and  $fd$  is the decay factor, but Johnson et al does disclose collecting connectivity measures in Abstract, lines 12-16.

However, applicant's admissions discloses:

Wherein said connectivity measure employs the following mathematical formula...Where  $C(E, L)$  denotes connectivity of entity E at depth L where E has N direct interactions,  $w(k)$  is the weight of direct interactions from k, and  $fd$  is the decay factor, (Page 5 of the specification, line 19-Page 6 of the specification, line 4).

Applicant's admissions disclose this limitation for the purpose of showing a general formulation of measuring connectivity.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to utilize connectivity formulas with the motivation of determining or estimating the user's interest and successfully analyzing the user's interaction.

As per claim 9, neither Johnson et al nor Herz disclose the specific formula:

Wherein said diversity measure employs the following mathematical formula...Where,  $D(E, L)$  denotes diversity of entity E at depth L where E has N direct interactions, and  $v(k, p) = 0$  if the property of k along the diversity dimension of interest is already within p, where p is a set of properties encountered so far, including the property of E or otherwise,  $v(k, p) = 1$ , but Johnson et al does disclose collecting connectivity measures in Abstract, lines 12-16.

However, applicant's admissions discloses:

Wherein said diversity measure employs the following mathematical formula...Where,  $D(E, L)$  denotes diversity of entity E at depth L where E has N direct interactions, and  $v(k, p) = 0$  if the property of k along the diversity dimension of interest is already within p, where p is a set of properties encountered so far, including the property of E or otherwise,  $v(k, p) = 1$ . (Page 6 of the specification, line 16-Page 7 of

the specification, line 2). Applicant's admissions disclose this limitation for the purpose of showing a general formulation of measuring diversity.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to utilize diversity formulas with the motivation of determining or estimating the user's interest and successfully analyzing the user's interaction.

As per claim 18, Johnson discloses:

collecting interaction data, (Col. 2, line 66-Col. 3, line 7, real-time interaction data monitored and specific data collected from the interaction between a user and an external information service);

computer processing said collected interaction data, (Col. 3, lines 8-11, connectivity data collected);

with a connectivity measure for measuring how well said entities are connected to their environments, wherein an environment of each entity comprises at least one other entity, (Abstract, lines 12-16, shows a connectivity monitor that monitors the connectivity data or the bi-directional data stream between software modules and the operating system, w/ abstract, lines 30-34, shows that connectivity data monitoring includes data packets sent, bytes sent, data packets received, and bytes received, where the one entity is represented by the user).

computer processing said collected interaction data with a diversity measure for assessing how diverse said entities are in their interactions with or connections to their environments, (Abstract, lines 12-16, shows a connectivity monitor that monitors the connectivity data or the bi-directional data stream between software modules and the

operating system, w/ abstract, lines 30-34, shows that connectivity data monitoring includes data packets sent, bytes sent, data packets received, and bytes received, where the one entity is represented by the user, where these measurements represent both connectivity and diversity according to the applicant's definition since data packets/bytes sent versus data packets/bytes received during a data stream connection has the ability to tell a user how well connected, or how diverse the connection is, and therefore the diversity measurement is inherent with Johnson).

displaying said processed interaction data and appropriate raw interaction data for interaction analyses, (col. 3, lines 43-45 and lines 60-63, shows a connectivity infiltration module for monitoring the keystroke information and movement of pointing devices [raw interaction data], and a desktop infiltration module respectively, which monitors the user and application activity on the computer [processed interaction data], in this case, col. 15, lines 38-41, shows display of connectivity data monitored by the infiltration device, and col. 16, lines 12-15, shows the display of the desktop data).

Johnson et al does not disclose among three or more entities, wherein each entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities, but does disclose the collection of data among more than one entity as shown in col. 2, line 66-Col. 3, line 7.

However, Herz discloses:

among three or more entities, wherein each entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities,

Art Unit: 3639

(See fig 1, and col. 33, lines 6-21, shows an electronic media system known in the art that may be applied to Herz's invention, where users on terminals T1-Tn access information via communication with one of the network vendors V1-vk, w/ col. 30, lines 37-41 shows that a 3<sup>rd</sup> party can interact (neutral third party) and provide a credential that a user is in good standing when rating a product via the communication network, in this case, the user, vendor and neutral third party serve as the three or more entities and in this case the vendor and the neutral third party interact with users on T1-Tn terminals, or multiple users). Herz discloses this limitation in an analogous art for the purpose of showing that a third party is involved in the collection of data related to a product when a user interacts on a communication network.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to collect interaction data among three or more entities, wherein each entity is an individual or a group of individuals, and wherein at least two entities directly interact with multiple entities, with the motivation of showing that a third party can be involved in the collection of interaction data.

Johnson et al fails to disclose and wherein said connectivity measure employs a decay factor to account for the effects of indirect interactions among entities, but does disclose collecting connectivity measures in Abstract, lines 12-16.

However, Herz discloses:

wherein said connectivity measure employs a decay factor to account for the effects of indirect interactions among entities/wherein said diversity measure employs a decay factor to account for the effects of indirect interactions among entities, (Col.



Art Unit: 3639

60, lines 41-52, decay factor). Herz discloses this limitation in an analogous art for the purpose of showing that a decay factor is used in monitoring/deleting accessed files.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention for the connectivity measure to employ a decay factor to account for the effects of indirect interactions among entities with the motivation of employing a function commonly used in the art for processing accessed files.

Neither Johnson nor Herz disclose the following:

and is a recursive mathematical algorithm in the form of:

$$C(E, L) = \dots$$

$$C(E, 0) = 0$$

where  $C(E, L)$  denotes connectivity of entity  $E$  at depth  $L$  where  $E$  has  $N$  direct interactions,  $w(k)$  is the weight of direct interactions from  $k$ , and  $fd$  is the decay factor, but Johnson et al does disclose collecting an analyzing user interaction data in Col. 2, line 66-Col. 3, line 7.

However, applicant's admissions discloses:

where  $C(E, L)$  denotes connectivity of entity  $E$  at depth  $L$  where  $E$  has  $N$  direct interactions,  $w(k)$  is the weight of direct interactions from  $k$ , and  $fd$  is the decay factor,, (Page 5 of the specification, line 19-Page 6 of the specification, line 4).

Applicant's admissions disclose this limitation for the purpose of showing a general formulation of measuring connectivity.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to utilize connectivity formulas with the motivation of determining or estimating the user's interest and successfully analyzing the user's interaction.

Neither Johnson et al nor Herz disclose the specific formula:

and is a recursive mathematical algorithm in the form of;

$$D(E,L) = \dots$$

$$D(E, 0) = 0$$

where,  $D(E, L)$  denotes diversity of entity E at depth L where E has N direct interactions, and  $v(k,p) = 0$  if the property of k along the diversity dimension of interest is already within p, where p is a set of properties encountered so far, including the property of E or otherwise,  $v(k,p) = 1$ , but Johnson et al does disclose collecting and analyzing user interaction data in Col. 2, line 66-Col. 3, line 7.

However, applicant's admissions discloses:

Wherein said diversity measure employs the following mathematical formula...Where,  $D(E, L)$  denotes diversity of entity E at depth L where E has N direct interactions, and  $v(k,p) = 0$  if the property of k along the diversity dimension of interest is already within p, where p is a set of properties encountered so far, including the property of E or otherwise,  $v(k,p) = 1$ . (Page 6 of the specification, line 16-Page 7 of the specification, line 2). Applicant's admissions disclose this limitation for the purpose of showing a general formulation of measuring diversity.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to utilize diversity formulas with the motivation of determining or

estimating the user's interest and successfully analyzing the user's interaction.

***Response to Arguments***

5. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Akiba K Robinson-Boyce whose telephone number is 571-272-6734. The examiner can normally be reached on Monday-Tuesday 8:30am-5pm, and Wednesday, 8:30 am-12:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Weiss can be reached on 571-272-6812. The fax phone numbers for

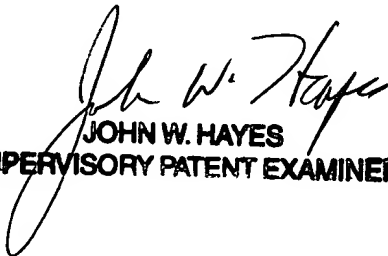
Art Unit: 3639

the organization where this application or proceeding is assigned are 703-746-7238

[After final communications, labeled "Box AF"], 703-746-7239 [Official Communications],  
and 703-746-7150 [Informal/Draft Communications, labeled "PROPOSED" or "DRAFT"].

Any inquiry of a general nature or relating to the status of this application or  
proceeding should be directed to the receptionist whose telephone number is 703-305-  
3900.

A. R. B.  
April 12, 2006

  
**JOHN W. HAYES**  
**SUPERVISORY PATENT EXAMINER**